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General Horary Numbers.

Date and Local Mean Middle Time.		Place of Observation.	Time spent in Counting.	Number of Meteors Counted.	Horary Number.	State of the Atmosphere.
	d h		h m			
1870, Jan.	2 16·5	Valletta	1 45	25	16	Clear.
	4 7·7	,,	0 30	2	4	,,
	4 16·0	,,	2 16	41	18	,,
	5 16·9	,,	1 10	31	26	,,
	7 16·0	,,	2 0	51	25	,,
	8 16·7	,,	0 54	18	20	,,
	9 14·6	,,	1 21	15	12	Cloudy.
	11 15·1	,,	1 40	18	11	Clear.
1869, Jan.	19 12·0	35°·9 N, 17°5 E	0 24	0	0:	,,
	21 18·3	36·0 N, 14·2 E	1 0	8	8	☾
	26 17·2	Valletta	1 30	2	1:	☾ ☾ and cloud.
	28 17·0	,,	2 0	4	2:	,,
	29 16·6	,,	1 48	0	0:	,,
	30 17·0	,,	2 12	4	2:	,,
	31 9·1	,,	1 6	2	2	Clear.
	31 16·9	,,	2 12	3	1:	☾
Feb.	1 16·8	,,	1 42	8	5:	,,
	3 16·9	,,	2 0	15	8:	,,
1870,	3 15·5	,,	1 52	31	17	Clear.
1869,	4 16·5	,,	1 36	8	5:	☾
	5 16·7	,,	1 25	14	10	Clear.
	6 16·7	,,	0 54	4	4	,,
	7 16·9	,,	1 40	12	7	,,
	8 15·4	,,	0 35	11	18	,,
	9 15·8	,,	0 21	6	17:	,,
	10 16·5	,,	1 49	24	13	,,
1870,	10 15·5	,,	1 40	29	17	,,
	11 15·7	,,	0 30	5	10:	,,
1869,	13 16·5	,,	1 35	16	10	,,
	14 16·2	,,	0 30	5	10	,,
	16 15·8	,,	0 47	6	8	,,
	17 16·4	,,	0 42	11	16	,,
	18 15·7	,,	0 48	8	10 +	Cloudy.
	21 16·1	,,	1 9	8	7	Clear.
1871,	21 11·7	,,	0 30	3	6	,,
1869,	22 16·5	,,	0 49	9	11	,,
	23 16·6	,,	1 10	8	7	,,
	24 16·4	,,	1 0	2	2	,,
	26 16·5	,,	0 30	1	2	,,
1870, Mar.	1 12·6	,,	0 24	1	3:	,,

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Date and Local Mean Middle Time.			Place of Observation.	Time spent in Counting.		Number of Meteors Counted.	Horary Number.	State of the Atmosphere.
	d	h		h	m			
1870, Mar.	2	15·1	Valletta	1	19	21	16	Clear.
	3	15·4	,,	1	43	26	15	,,
	4	15·0	,,	0	51	15	19	Haze & cloud.
	7	15·5	,,	2	34	31	12	Clear.
1869,	7	16·4	,,	0	34	17	30	,,
1870,	8	15·1	,,	1	21	25	19	,,
1869,	10	13·6	,,	0	26	0	0 :	,,
1870,	10	14·8	,,	0	40	16	23	Little cloud.
	11	14·5	,,	0	42	5	..	Very cloudy.
1869,	11	15·9	,,	1	2	6	6	Clear.
	13	15·8	,,	0	55	4	4	,,
	14	15·7	,,	0	30	1	2 :	,,
	15	15·9	,,	0	53	6	7	,,
	19	14·6	,,	1	31	13	9	,,
Apr.	23	15·0	,,	1	0	1	1	,,
1870,	25	14·0	,,	1	24	11	8	,,
	27	15·0	,,	1	22	28	20	,,
1870, April	28	12·1	,,	1	15	8	7	Clear.
May	2	14·8	Syracuse	1	22	25	18	,,
	3	14·7	,,	1	26	8		,,
June	28	14·2	Valletta	1	38	37	23	,,
	29	14·0	,,	1	10	22	17	,,
	30	14·6	,,	1	30	15	10	,,
July	1	14·7	,,	1	12	25	21	,,
	8	14·7	36°·7 N, 13°·7 E	1	2	29	28	,,
	9	15·2	37 ·1 N, 13 ·7 E	0	34	11	18	,,
	21	12·2	Taormina	0	49	21	26	,,
	22	12·6	Valletta	0	48	28	35	,,
	27	14·5	,,	1	48	61	34	,,
	28	14·5	,,	1	38	65	41	,,
	29	14·2	,,	1	10	40	33 +	Cloudy.
	30	14·5	,,	1	36	52	32	Clear.
Aug.	1	14·9	,,	1	13	39	32	,,
1869,	4	14·6	40°·8 N, 14°·3 E	1	13	37	30	,,
1870,	4	15·0	37 ·0 N, 11 ·5 E	1	0	41	41	,,
	5	14·8	37 ·6 N, 9 ·7 E	1	6	31	28	Little cloud.
	6	14·6	37 ·2 N, 8 ·0 E	1	42	57	36	Clear.
1869,	6	14·7	40 ·8 N, 13 ·3 E	1	42	58	36	,,
	7	9·6	41 ·0 N, 12 ·0 E	1	0	15	15	,,
	7	13·8	,, ,,	1	6	40	36	,,
1870,	7	15·6	37 ·3 N, 5 ·2 E	0	43	43	60	,,
1869,	8	9·2	41 ·1 N, 10 ·9 E	0	45	12	16	,,
	8	14·1	41 ·4 N, 11 ·2 E	1	9	37	32	,,

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Date and Local Mean Middle Time.			Place of Observation.	Time spent in Counting.		Number of Meteors Counted.	Horary Number.	State of the Atmosphere.
	d	h		h	m			
1870,	8	15·3	37·2 N, 3·0 E	0	10	14*	88:	Nearly overcast. ☾ full.
1870, Aug.	9	15·5	36·9 N, 0·3 E	1	0	12*	—	Cloudy; ☾ full.
1869,	10	13·0	43·0 N, 9·4 E	1	4	80	75	Clear.
	10	15·7	,, ,,	0	30	20	40	,,
1871,	10	13·0	48·2 N, 5·7 W	1	49	111	61	☾ clear.
1870, Aug.	10	15·4	36·4 N, 2·8 W	1	45	2	—	Cloudy, and full Moon, but certainly no bright meteors.
1871,	11	12·7	48·7 N, 5·8 W	1	24	64	46	Clear.
1869,	11	14·5	43·0 N, 9·4 E	1	0	61	61	,,
1870,	11	15·0	36·1 N, 5·2 W	1	12	16	13:	Full ☾, clear.
1871,	12	13·3	49·8 N, 4·7 W	2	6	57	27	Clear.
1869,	12	14·4	43·0 N, 7·7 E	1	9	31	27	A little cloud.
1871,	13	12·7	50·0 N, 4·8 W	1	12	20	17	Clear.
1870,	14	9·3	Gibraltar	0	24	8	20:	,,
1871,	14	15·1	50·0 N, 6·0 W	0	6	3	30::	Cloudy.
1869,	15	12·6	43·3 N, 5·3 E	1	0	27	27	Clear.
1870,	16	9·5	Gibraltar	1	6	34	31	,,
	18	9·9	,,	0	42	13	19	Cloudy.
1871,	18	13·8	Queenstown (Cork)	0	27	5	11	,,
1869,	18	14·3	Marseilles	0	24	1	—	☾ clear.
	18	15·1	,,	0	52	18	21	Clear.
1870,	19	9·5	Gibraltar	0	36	15	25	,,
	19	11·0	,,	0	25	9	25:	,,
1871,	20	13·0	Queenstown	1	4	30	28	,,
	20	15·1	,,	0	30	6	12	,,
1870,	21	12·5	Lisbon	1	12	20	17	,,
	22	13·3	,,	0	30	8	16	Clear and ☾.
	23	13·5	40°·9 N, 9°·2 W	2	6	47	22	Clear.
1871,	24	12·2	Queenstown	1	30	2	—	Brilliant Aur. Bor.
	25	12·6	,,	1	8	14	12	Clear.
1870,	28	15·1	Vigo (Spain)	1	30	32	21	,,
1870, Aug.	29	14·4	,,	0	36	11	20	Hazy.
	30	14·5	,,	1	36	28	17	Clear.
	31	14·9	,,	1	3	30	28	,,
Sept.	5	14·9	37°·0 N, 9°·2 W	1	18	37	28	,,
	6	15·4	Cadiz	1	0	25	25	,,
1871,	7	11·6	Lisbon	1	34	29	19	,,
1869,	8	13·9	Cape St. Vincent	1	34	29	18	,,
1871,	9	12·1	Lisbon	0	42	12	17	Little cloud.

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* All very bright meteors.

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	d	h		h	m			
1869, Sept.	10	14·0	,,	1	0	18	18	Thin cloud.
	13	14·9	,,	1	30	34	23	Clear.
	14	15·1	Lisbon	1	7	21	19	,,
1871,	15	13·5	,,	0	33	8	14	Cloudy.
1869,	15	14·7	,,	1	16	24	19	Little haze.
1871,	21	15·2	,,	0	50	9	11	Clear ?
1871,	22	13·8	,,	1	12	8	7	Cloudy.
1869, Oct.	2	11·4	36° 2 N, 3°·3 W	1	16	27	22	Clear.
	4	14·1	36 ·5 N, 1 ·4 W	0	57	21	22	,,
	4	15·3	,, ,,	0	49	25	30	,,
	5	14·4	36 ·6 N, 0 ·1 W	1	9	17	15	,,
	6	14·2	37 ·2 N, 1 ·0 E	0	44	19	26	,,
	6	15·3	,, ,,	0	42	12	17	,,
	7	14·6	Algiers	1	4	13	12	,,
	8	14·2	37°·3 N, 5°·1 E	0	46	14	18	Cloud.
	8	15·2	,, ,,	0	36	21	35	,,
	10	14·5	37 ·5 N, 10 ·0 E	0	58	23	24	Little cloud.
	11	15·4	36 ·5 N, 12 ·0 E	0	50	24	28	Clear.
	12	13·8	36 ·3 N, 13 ·8 E	0	41	25	35	Little cloud.
	12	15·0	36 ·2 N, 13 ·9 E	0	44	26	36	Clear.
	13	13·0	Valletta	0	41	26	38	,,
	13	14·2	,,	0	48	26	32	,,
	13	15·5	,,	0	37	28	45	,,
	14	13·8	,,	0	38	31	48	,,
	14	14·9	,,	0	37	28	44	,,
	14	16·0	,,	0	30	32	64	,,
	15	15·5	,,	0	55	50	54	,,
	15	16·5	,,	0	31	41	80	,,
	16	16·0	,,	0	35	47	81	,,
	17	16·7	,,	0	35	24	41	Thin cloud.
	28	10·7	,,	0	40	12	18	Clear.
	29	12·9	,,	0	13	7	33:	,,
Nov.	3	13·0	,,	0	28	15	32	Very little cloud.
	3	14·0	,,	0	37	24	39	,,
	3	15·3	,,	0	31	16	31	,,
	3	16·3	,,	0	34	21	37	,,
	6	13·1	33°·7 N, 21°·4 E	0	25	16	38	Clear.
	6	13·8	,, ,,	0	29	17	35	,,
	6	14·5	,, ,,	0	34	15	27	,,
	7	13·2	32 ·3 N, 24 ·2 E	0	34	26	46	,,
	7	14·3	,, ,,	0	36	26	43	,,
	7	15·3	,, ,,	0	39	18	28	,,

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Date and Local Mean Middle Time.			Place of Observation.	Time spent in Counting.		Number of Meteors Counted.	Horary Number.	State of the Atmosphere.
	d	h		h	m			
1869, Nov.	9	13·2	31·4 N, 29·6 E	0	36	10	17+	Cloudy.
	9	14·4	,, ,,	0	30	13	26	Clear.
	9	15·4	,, ,,	0	25	11	26	,,
	10	8·1	Alexandria	0	55	9	10+	Cloud and ☾.
	10	13·5	,,	0	48	17	22+	Cloudy.
	10	14·5	,,	0	36	18	30+	,,
	10	15·5	,,	0	42	14	20+	,,
	11	8·4	,,	0	15	6	24+	Cloud and ☾.
	11	13·4	,,	0	48	14	17	Clear.
	11	14·6	,,	0	40	10	15	,,
	12	14·1	,,	1	9	28	25+	Cloud.
	13	15·5	Port Saïd	1	16	112*	—	Very cloudy.
	14	15·0	,,	0	54	5	5	Cloudy.
1870, Dec.	12	7·9	Valletta	1	0	13	13+	Clear.
	14	7·2	,,	2	0	7	4	,,
	15	9·2	,,	1	12	6	5	,,
	16	9·2	,,	2	12	7	3	,,
	17	9·0	,,	3	0	6	2	,,
1869,	23	13·1	,,	0	38	15	19	☾ ☾ and cloud.
	27	11·6	,,	1	30	9	6+	Very cloudy.

Some Observations of the Colours and Magnitudes of Southern Stars in the Year 1864. By Capt. G. L. Tupman, R.M.A.

When at Montevideo, in May and June 1864, I proposed to register the colours of all stars, visible to the naked eye, within 60° of the South Pole, and to make an attempt to compare their magnitudes with those obtained by the late Sir John Herschel, in 1836–8. I was, however, ordered home shortly after commencing, and only lately have thought the few observations made worth communicating, chiefly on account of the number of coloured stars observed.

The magnitudes have been obtained from observed sequences by plotting on charts of engraved squares, using Sir John's sequence magnitudes as ordinates, and drawing a free curve through all the points obtained, by which method the new magnitudes are strictly comparable with those formerly obtained.

In the Catalogue the Constellations are arranged alphabetically, and the stars in the order of lettering for convenience of reference. The letter and the B.A.C. number are considered sufficient for identification. The magnitudes given in the Cape "Results" are entered in the third column under 1837. Among the Notes are occasional observations with an achromatic of

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* All very large meteors. See *Monthly Notices*, vol. xxx. p. 29.